

LOCUS DEFINITION	HSU22027 7215 bp DNA PRI 22-OCT-1995 Human cytochrome P450 (CYP2A6V2) gene, complete cds.
NID	g1008461
KEYWORDS	
SOURCE	human.
ORGANISM	Homo sapiens
	Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
	Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 7215)
AUTHORS	Fernandez-Salguero, P., Hoffman, S.M., Cholerton, S., Mohrenweiser, H.,
	Raunio, H., Rautio, A., Pelkonen, O., Huang, J.D., Evans, W.E.,
	Idle, J.R. et,al.
TITLE	A genetic polymorphism in coumarin 7-hydrozylation: sequence of the
JOURNAL	Am. J. Hum. Genet. 57 (3), 651-660 (1995)
MEDLINE	95397851
REFERENCE	2 (bases 1 to 7215)
AUTHORS	Fernandez-Salguero, P.
TITLE	Direct Submission
JOURNAL	Submitted (01-MAR-1995) Pedro Fernandez-Salguero, National
	<u>a</u>

the

2/28

Location/Qualifiers 1..7215

organism="Homo sapiens"



FIG.2A CONT

5'UTR

CDS

3207..3383, 4257..4398,4873..5060,5577..5718, 6308..6489 codon_start=1 gene=CYP2A6V2: 010

product=cytochrome db_xref-PID:g1008462" P450"

RSTHGANIDPTFFLSRTVSNVISSIVFGDRFDYKDKEFLSLLRMMLGIFQFTSTSTGQ & LYEMFSSVMKHLPGPQQQAFQLLQGLEDFIAKKVEHNQRTLDPNSPRDFIDSFLIRMQ & NYLQLNTEQMYNSLMKISERYGPVFTIHLGPRRVVVLCGHDAVREALVDOAEEFSGRG EQATFDWVFKGYGVVFSNGERAKQLLRFAIATLRDFGVGKRGIEERIQEESGFLIEAI EEEKNPNTEFYLKNLMMSTLNLFIAGTETVSTTLGYGFLLLMKHPEVEAKVHEEIDRV PMLGSVLRDLRFFSNPRDFNPQHFLGEKGQFKKRDAFVPFSIRKRNCFGEGLARMELF LFFTTVMQNFRLKSSQSPKDIDVSPKHVGFATIPRNYTMSFLPR IGKNRQPKFEDRAKMPYMEAVIHEIQRFGDVIPMSLARRVKKDTKFRDFFLPKGIEVF translation=MLASGMLLVALLACLTVMVLMSVWQQRKSKGKLPPGPTPLPFIG

gene=CYP2A6V2:

number=1

exon

gene=CYP2A6V2: 1237..1399

exon

number=2115..2264

exon

1/1E0/86 OM



FIG.2A CONT.

/	•																						
	ORIGIN	BASE COUNT	3'UTR			exon			exon			exon	•		exon			exon			exon		
		1646																					
		a 2196 c	64906744	/number=9	/gene=CYP2A6V2:	63086489	/number=8	/gene=CYP2A6V2:	55775718	/number=7	/gene=CYP2A6V2:	48735060	/number=6	/gene=CYP2A6V2:	42564398	/number=5	/gene=CYP2A6V2:	32073383	/number=4	/gene=CYP2A6V2:	24992659	/number=3	/gene=CYP2A6V2:
		1746 g			6V2:			6V2:			6V2:			.6V2:			.6V2:			6V2:			6V2:
		162																					



FIG.2A CONT. BASE COUNT

tgccgtcagg	gtggacatga	gtggtgctgt	ccggcgggtc	acttggggcc	ttcaccattc	1261
<u>بر</u>	gtgagcgct	catcagatca	cacccacctc	taaccactcc	gttctccctc	1201
Ö	ggccccatt	ctcggtgctg	cacatgacat	agcatcccag	ctgggtgcga	1141
വ	agctccctg	tgggatgtcc	gacaggatct	gcatcagaaa	tggagtttca	1081
മ	agtcttagg	tgtggaccaġ	ggttgaccag	tgtggcaggg	gctggggctt	1021
C	gggtggggg	gggtgtctcg	acagggagat	gtgtcccaag	cctcatgaag	961
മ	acagagcag	gcagctgaac	gaaactacct	cccttcattg	caccccattg	901
a	gggaagctg	gaagagcaag	ggcagcagag	atgtctgttt	gatggtcttg	841
\Box	ttgctggcc	tctggtggcc	cagggatgct	atgctggcct	ctctaccacc	781
മ	gccgtcacc	aaccacccca	tataaaggca	tttcaggcag	catccctctt	721
C	ttatgtaat	aatgaggtaa	tgggaggtga	ggcatgtagt	ttcatggtgg	661
g	gtgtcccaa	cttgctggct	cttatcctcc	ctggggtccc	ttcagctgcc	601
a	gtctggagg	cacagattta	cctgaagtac	cggcacccct	cacagccctg	541
C	ctgttgccc	tacagcttat	tcctcagttc	tattccaaac	cctatgcaaa	481
a	atccaaagc	cagaccccaa	ttctcactct	ttggggtgca	ccgcacaact	421
മ	ctcccctgg	ttggattcct	acccagacct	ccctaataaa	ctttgtctta	361
Ф	cccctaaat	caacagaaga	gcatcctcca	ccttaaccct	ttcctgagac	301
Ţ	ccatatgcc	actttcaagt	tagccccgag	tgggtcttcc	cccacagccc	241
Ω	ctcctccca	ctacacactc	gctgggcttg	ggagaacgcc	gggctttctg	181
Ф	ggacccagt	gtcagcccct	gctaaatcaa	tctgggcaaa	aagagacagc	121
٠,	caatgaggat	tctgaggttc	ctggcctcac	ggcagccatc	gaggttctat	61
שק	caatgaagaa	ctccccttgc	tctggtcttc	gaaatatggc	aagttcccct	┙





FIG.2A CONT

2581 2641 2461 2401 2341 2281 2221 2161 2101 2041 1981 1921 1861 1801 1621 1562 1501 1381 1741 168 1441 cttcctgagc gtcaacctcc ctataaggac actctctccc aatttggctc gggatgggga gagtgcgggg ggaggagtcg acctgatcga atcctctgcc gggttattcc gtctccagcg agtctggtct tgccatcgcc tcacaccaag cagaccctct ctctgggttt tgggtcttca gaggctctgg ttaccagcc tctcactgga tcagtgttcc tgtggagct acggggcagg aaagagttcc cgcacagtct caaccccctt aacaaggccc ctaggtgggg gcaggagaag ggcttcctca accctgaggg ctaggcgtgg aatgccgtga ctgtttctat ctcatctctc tccatcactc agaggatgtc ctgggtctct gtctcctctt gccctgtcct cagccttctc aaggctatgg tacttccaca tccctcccca tggaccaggc ctcccgacat taatggttgc ccaatgtcat tgcctcctgg aaaggcgccc gaaaacaccc acttcggggt agctatgtgc ctccacccag tgtcactgtt tcgaggccat tattcagcaa ctcaatatta cggatccctt gtctacatga gattcctccc cctgactctc tcttctctc tctccctaca tcttcaggct teceetetet tgcccaagag tgaggagttc agcccggccc gcgcatgatg cagctccatt acccggaggc aattctgact gcacttccag aggacgagga cccactgccc ccggagcacg gggcaagcga cggggagcgc atctctctgt atctccccat aactctctgc agcgggcgag ccatctcctg tctcaattct gtctttgagg tecetetet tgcctctctc ttggggcctc ctgacaactg ggggaaggtg gtgaaggccc ctaggaatct gtctttgggg gccaatatcg ctcctcagac ccctggagtc acccgcgcgc cacggtgagc ggcatcgagg gccaagcagc ctggccgtac atctcactac gtaacagtct ccctcttagc ctccatctct gaggataagg ggcaggtgga gcgagcaagc tgcggacgcg tccagctcag tccatgtgta tcctctgtct tgccccacct ttaccaaaa accgctttga മ atccaatgga tccagttca ctctgagttg gttctgcctg aggggaccc agcgcatcca ctgggtaata cttaagaatc ctcttccttc gagagtcccc cacgaaggtc caccttcgac tggcgctggg tcctgcgctt cccaccctcc taggatgcca ccttattctc ttctgggctt tgggtttctg tccctcacct tcccacct



FIG.2A CONT

2941 2881 2761 3061 3001 3721 3541 3241 3181 3121 3481 3361 3301 3781 3601 661 cggcaaattg cccatcccca acagagcctg tggttgtcca tgtcccctca ccttgctatg tttaacacc cctttctcat agaaggtgga ttcccatcct tatccggccc gccaacatgg accctcatca aggcagaggg tgccaggacc cgaaggggg agcactttgg gctcaggagt atggtcatgc cagaatgagg taacgaaggt laaaaacaaa ctggcaggat atcccctgct aaatcagtcc ttcccctacc cggaaaccct acttaccggt ctctctgcaa aaacaaatcc ctctgaaata ccgcatgcag gcacaaccag gcagcaacag aaatcagtct ccctgtgtca cagaggttgc gaggccgagg gcatgtgcag taataatcct gagaaggaag aaaaaagctg tggcgtccgg tcaaaccccg ccgatttggg gggggaaggg gcataccctc ctccagggac cctaaccacc gggtacctaa aatttctaac gcctttcagt ccccagctct cattcccatc gaggtacacc cgcacgctgg caggtggatc cacaattggc gggagtgggg agcattgggg acagctaagt cctgtgcaac ctccagctac aaaaaatta aatgagccaa tctctactaa ggccccaaat agatgctccc agctcagctc accgggatag caaattggca ggagaccaga ccttcctgt atcccaattc atgagatgtt agctcctgcc caggcagatg gcaacgccag gatcacggca aaatccaaaa acctgaggtc ccagcagcca tgctgcaagg atcacttgtt tgggtgccgt tcaggaggct tgataattga ttagcaagac cacaacagat gagtggaacc tcccaccgcc ctcttcggtg ctgcggggag cccacgggac ccgtgacagc tgcctttaac aaactttaga tacccaggtc tctcaccctg ggctaacagc acacaggccc gctggaggac gagtcagggc attagttggg aggagttcga cggacagatg caagtcagta gaggctggag ttgcactcca taaaaagtaa agacccgggt ccccggacag gattagttcc ggcacgtgtt gctcccaaa attcaaatta atgcaaagcc atgaaacacc tgtccttccc tcagttcctt ttcttgaata catggtggcg gaccagcctg ctgtaatccc ttcattgact ttcatagcca gtctgggtga aagggctggt gtcagcaagg gattgcttga gtgagcctgc taagaaaaaa



FIG.2A CONT

4801 4321 4261 4741 4681 4621 4561 4501 4441 4381 cctcttgacc aagagaggtc gggatttctt gtgattctgg ctgagtgccc agatattaaa gtgacttgct aaaattcccc agcacccaga tcattgcagg agaagaaccc tggtgccctg tcctagagcg cccctctctg gatttggaga ccaagtttga ctcctcccc tgttctgtta acactcctga ccctcaatca ttgcctatcc cagaaatctc caaacttcc caccgagacg caacacggag aggtcaagca cccattggtc gagggtgctg agtctggtag atattgaaaa gtccagagac ggtggagggt cgtgatcccc cacaacctgg actgcccgtt ttcgactggt gtcctgcatc cctccctaag ggaccgggcc agccaaggtc ggactatcat tgaatgctct aggtcccca gtcaaaaaag tgtccccagc tatcttaaga gtcagcacca ggagtgaggt ggattgcgct gatctagggc agggcaacat gcaatgtccc aaggctggag ttctacttga gtgctatccg ccaccgggtc tgaacctaag acttccccaa atcccaccca atgagtttgg aagatgccct catgaggaga acttccgtct tgtctgcact aactcctgcc aacagaagcc tctccagact ttcctgctct ttaacaggat ggggacggaa ccctgcacta agaacctgat agtggaagat agactcgagt ccctcttctc cctactccaa atcccctaag gattggtcag cacctgtccc tgtcctaaag gagaccccta cataggcgga tcagctggta ccctttccat ctttgtgtca ccaccacatc cattagaagc ccccaccc cccgcagagt acatggaggc ttgacagagt tagaaggaca ctgtgtagat caccctgcgg ggcatcagct gatgagcacg cccctctcc ccatggggtg ggcatttcat agatcccggg gtggagggcc gatcggcaag gatacctaaa caatgcgaat tcacttctgt tggcttctta tcggcctttt ggagaatcaa cgttccacct tttctagacc ccagactacg caaaaaggac agtgatccac ttcctccctg tggaccccat gagtctcatt accctgaga ctgctcatga cttggggtcc ccagaccctc cttcaggagg aacccctaga tcttgcccca cacattccc ccaccccat gggtgatgtc tgcctcccc cccaagccca gtcataggga ttccacttag ctgtcccact gggactccag accaagtttc gagatccaa aaccggcagc gtctcccaaa acacatgttc tgaacctc





IG.2A CON

5581 5641 6001 5941 5881 5821 576 5701 6481 6361 6301 6241 618 909 cttcctgttt gggacttcaa actctcaaca ttcccatgcc ggcaagttcc gcaggggcct ggggaaggg cttcagcatc gggaaaacca gcacccagta ttgtgccctt tagaagtgtt ggtgcttccg aaggggcgtg ggccaagacc ccccgctgag gtgtcccca ttggtcatct tcctcaggaa tcggtactgg ttaaagtctc tcaccaccg ctccatcagt ccctatgttg atcccccaac tgccacttcc cagagatgtg agctgggatg gtggctagag gggcttggga cgagggctgt aacacgtggg ggcgaggctg ggatcttaaa cctaaaaagg aaggccagag cctgtgccca tgttagcaat cccttaccca tccccagcac agcggaactg tttgggtcac tcatgcagaa tcagggccat ggctccgtgc ccgcctcatc cctcaccggg aaccttctat agaggaagga ggaagagaag gaggggcgca ctttgccacg cttccgcctc cactgagagt cctcccattg agatgacggc ggcaaaagga ctaccgtcga gttcccctct aagagaccac ttcctgggtg gccggtgaag tttcggagaa atattccacc agaatcagag tcaaggaaac ctgccgtgta agaaggggca acatacacct gcaccctagt ccccaaggt aacccttaca aaacagaagc gctaagactg gtctggtggg acagcaggtc atttatttcc aaggaaacat gccaccaggt tgagagacct atcccacgaa aagtcctccc ggcctggcca gggcttcacc cttcctccct tgtttggtgc tgaggtcaag tggacacctg gcctagtatt gtttaagaag cctccctcag gcatcgatca atatttggga ctagggtcac catacccctt gatactccct caggcttact caggttcttc tcctcctccc tcccctcca agtcacctaa gaatggagct gggagagccg gagggtcaag ggctcagttc ggggcaggat cggggccagg actacaccat tccacccctc ttatgctatg gcccctgtg aggtcccca gttcttatct actcacacca cgtgatgctt gagcttcctg ctttctcttc ccgcctctc cagctggagg aggctccctc accccatctt tccccagctt tccaaccccc tcccagggc aagagtagta accttgataa ggcggaaagg gaaagggcag ggacattgac acaggagat tcagaggcgg taactaccaa

TITLE



FIG.2B

LOCUS REFERENCE SOURCE KEYWORDS ACCESSION DEFINITION AUTHORS ORGANISM g35206 Human HSP452B6 Miles, X13494Vertebrata; Eukaryotae; Homo sapiens human. Cytochrome; (bases MRNA J.S. FOR CYTOCHROME mitochondrial eukaryotes; Metazoa; cytochrome Eutheria; to 1415) đđ Primates; P450IIB6 RNA P-450IIVB6 Catarrhini; Hominidae; Homo PRI Chordata 29-MAY-1992

JOURNAL Submitted Direct Submission

(10-NOV-1988) Miles J.S.,

Imperial Cancer

Research

Fund,

69/11

REFERENCE TITLE AUTHORS Building, Alternative Miles, J.S., McLaren, A.Q. and Wolf, C.R Lab of Molecular Phrmacology and Drug Metabolism, Hugh Robson (bases 1 to 1415) George Square, Edinburgh, EH8 splicing in the human cytochrome 9XD P450IIB6 gene

JOURNAL MEDLINE Nucleic Acids generates high level of aberrant messages Res. 17 (20), 8241-8255 (1989)

COMMENT The chromosomal sequence location=19q12-13.2; ր Տ മ compilation of genomic and CDNA clones.

Data kindly reviewed (13-NOV-1989) by Miles, J.S

Location/Qualifiers

**map:



IG.2B CON

•													
1 gaattccgcc	ORIGIN	BASE COUNT 341 a		misc-feature	misc-feature	misc-feature	misc-feature	misc-feature	misc-feature	misc-feature	misc-feature	misc-feature	source
ctgcacccat		a 430 c	/note=exon 9	/note=exon 1 12341415	/note=exon 7 10921233	/note=exon 9041091	/note=exon ! 762903	/note=exon '585761	/note=exon 3	/note=exon 2 274423	/note=exon 1 111273	/organism="Homo 9110	11415
gaccgcctcc		328 g	9", coding	∞ *	7"	<u>ა</u>	<i>ហ</i> "	4 "	w "	2"	1, partial"	lomo sapiens"	
caccagggcc		316 t	region"										:
ccgccctctg													
						-							

15/28

ccccttttgg